

Regulatory Framework of Water Reclamation in California

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Presentation Overview

- Overview of State Agencies
- State Water Resources Control Board
- Department of Health Services
- Local Health Jurisdictions and Authorities
- Regional Water Quality Control Board

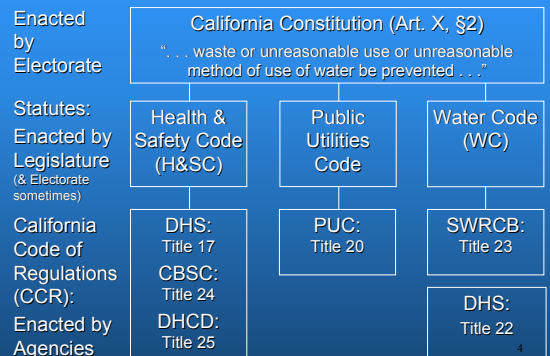
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Regulatory Objectives

- Protect public health, environment, water rights, public welfare, jurisdictional boundaries
- Efficiency: clear authorities and requirements
- Fairness: consistent decisions
- Regulatory certainty: known and uniform standards
- Public confidence: standards enforced

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Hierarchy of Laws



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State of California Responsibilities of State Government

- Water Supply
 - Department of Water Resources
- Water Quality
 - State Water Resources Control Board
- Public Health
 - Department of Health Services

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Additional State Agencies

- California Building Standards Commission
 - Uniform statewide plumbing standards (H&SC, §18938(b); CCR Title 24, Appendices G and J)
- Department of Housing and Community Development
 - State Housing Law standards (H&SC, § 17950; CCR Title 25, §§601.2.2, 601.2.3)
- California Public Utilities Commission
 - Rates and revenues of investor-owned utilities
 - Duplication of service (Public Utilities Code, §§1501-1507)

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Department of Water Resources

- Long-term water supply planning for state
- Operates State Water Project
- Standards for
 - Greywater use (WC §§14875-14877.3; CCR T24, Appendix G)
 - Indoor plumbing for recycled water (Appendix J, apparently drafted but not adopted by DWR) (CCR Title 24, Appendix J)

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State Water Resources Control Board

- Protects water quality (Porter-Cologne Water Quality Control Act: WC Division 7, §§13000 et seq.)
 - Water quality control plans (basin plans) (WC §§13164, 13170, 13240 et seq.)
 - Regulatory programs:
9 Regional Water Quality Control Boards
 - Financial assistance to local agencies (WC: Bond laws of 1974, 1978, 1984, 1988, 1996, 2000)

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State Water Resources Control Board

- Allocates rights to use of surface waters (Constitution, Art. X)
 - Waste & unreasonable use hearings for use of potable water in place of reclaimed water under certain conditions (WC §§13550, 13551)

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State Water Resources Control Board

- Basin Plans
 - Beneficial Uses for all surface and ground-water bodies
 - ♦ MUN: Municipal use (drinking water source)
 - Water quality objectives to maintain or achieve beneficial uses
 - ♦ SWRCB Policy protecting sources of drinking water (Resolution No. 88-63)
 - ♦ SWRCB "Non-degradation Policy" (Res. 68-16)
 - ♦ DHS Title 22 recycled water criteria for groundwater recharge to protect drinking water sources

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Department of Health Services -Organizational Structure-

- Division of Drinking Water and Environmental Management
 - Drinking Water Program
 - ♦ Field Operations Branch
 - 22 District Offices
 - Permit Public Water Systems (Safe Drinking Water Act: H&SC §116325)
 - Review Recycled Water Proposals
 - ♦ Technical Programs Branch
 - Recycled Water Unit

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Role of Department of Health Services - Recycled Water

- Develop Water Recycling Criteria (WC 13521)
 - CCR Title 22, Chapter 3, Articles 1 - 10
 - Non-Potable and Indirect Potable Uses
- Review proposals for T-22 compliance (WC 13523)
 - Engineering Report: Treatment, Use-site design/controls, "O&M" Procedures, Rules of Service, Ordinances
- Timelines/Delegation/Reimbursement (WC 13554.2)
 - Ensures timely review / comment of proposals

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Role of Department of Health Services - Recycled Water

- Interface with other State and Local agencies
 - Food & Drug / Licensing and Certification / USDA / Local Building & Fire and *Local Health Departments*
 - Cross-Connection Control
 - CDHS Oversees PWS Programs**
 - (Meter Protection-H&SC 11655, T-17 §7584)
 - LHDs**
 - (Users Premises-H&SC 116800)

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Role of Department of Health Services - Recycled Water...

- Guidance development / interpretation
- Review new / emerging technologies
- TPB provides technical support to FOB
- Interface with recycled water industry and organizations

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Department of Health Services Information Sources

- California Safe Drinking Water Act & Related Laws - "Blue Book" (7th Edition)
 - Found Under Publications
- California Health Laws Related to Recycled Water - "Purple Book" (June 2001)
 - Found Under Water Recycling
- WWW.DHS.CA.GOV/PS/DDWEM/INDEX.HTM

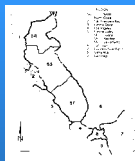
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Memorandum of Agreement CDHS / SWRCB

- Clearly outlines roles & responsibilities of CDHS / SWRCB / RWQCB's
- Based on elements of the WC
- Dispute & conflict resolution

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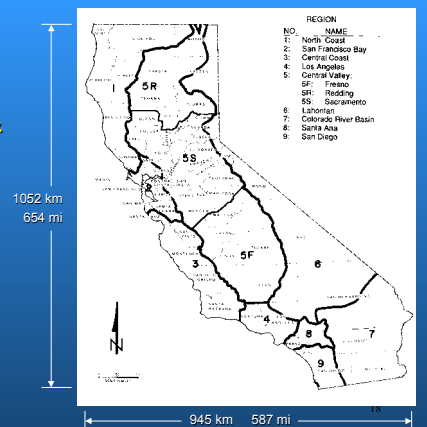
Regional Water Quality Control Boards



- Develop Basin Plan (WC §13240)
- Adopt and Enforce Permits for Wastewater Discharge and Reclaimed Water Use (WC §§13260, 13523, 13523.1)

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California Regions & Counties



Types of Permits

- Waste Discharge Requirements Permits (WC §13263)
 - For surface waters, same as federal National Pollutant Discharge Elimination System (NPDES) permits
 - May include water reclamation requirements
- Water Reclamation Requirements Permits (WC §13523)
- Master Reclamation Permits (WC §13523.1)
 - May include waste discharge requirements (WC §§13263(h), 13523.1(b)(1))

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Who Receives Permits

- Three Options:
 - Wastewater treatment plants owners
 - Reclaimed water purveyors
 - Reclaimed water users
 - (WC §§13523(b), 13523.1)

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Permit Development for Reuse

- RWQCB drafts permit
 - Report from entity requesting permit
 - Consultation & recommendations from DHS
 - Incorporates applicable provisions of CCR Title 22
 - Other provisions to protect environment, prevent nuisance, monitor operation and compliance

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Protecting Reclaimed Water Quality

- Source Control, Industrial Pretreatment, or Pollution Prevention Programs
 - Governs discharge of wastes into sewers that cannot be treated effectively by municipal treatment plant or could harm treatment plant
 - Regulated sources: industry, commercial
 - Potentially regulated: water softeners
 - Unregulated: pharmaceuticals
 - Ref: WC §13263.3, Clean Water Act §307

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SWRCB Information

- www.swrcb.ca.gov
 - Try Alphabetical Index
- Office of Water Recycling Web site
 - <http://www.swrcb.ca.gov/recycling/index.html>
 - Funding programs and statewide survey

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